

20020324.qrp v02_n504.qrl.20020324

Date: Sun, 24 Mar 2002 19:03:07 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2504

QRP-L Digest 2504

Topics covered in this issue include:

- 1) [123033] FDIM/Hamvention Travel
by "Marty N5NW" <n5nw@n5nw.org>
- 2) [123034] 20 meters Saturday night
by "Ron Polityka" <wb3aal@fast.net>
- 3) [123035] Re: Airport security.
by "Karl F. Larsen" <k5di@zianet.com>
- 4) [123036] Need Original NC-40 Manual
by "N3BJ" <N3BJ@hotmail.com>
- 5) [123037] Re: Airport security.
by Hank Kohl K8DD <k8dd@arrl.net>
- 6) [123038] Atlanticon speaker: Dave Gauding, NFOR
by "George Heron N2APB" <n2apb@erols.com>
- 7) [123039] Re: Safety First
by wb4mnf <wb4mnf@atl.org>
- 8) [123040] This sort of kindness is rare
by "Bill Jones" <kd7s@psnw.com>
- 9) [123041] Re: tube rigs
by David Hinerman <wd8civ@worldnet.att.net>
- 10) [123042] Re: Atlanticon speaker: Dave Gauding, NFOR
by "Doug Hendricks" <ki6ds@dph.dpol.net>
- 11) [123043] Re: ALTOIDS TINS
by "DIANNE M WISE" <roy537@prodigy.net>
- 12) [123044] SoCal QRP?
by "Ian Wilson" <ianmwilson@earthlink.net>
- 13) [123045] OT: Laptop--keyboard problems
by Mark Fields <mark_ke5my@juno.com>
- 14) [123046] Re: Computer Scanner does good job ..as good as a photo!
by Mike Czuhajewski <wa8mcq@comcast.net>
- 15) [123047] Pre-Wound Toroids = Good stuff
by Bob Mason <skydive@usa.net>
- 16) [123048] RE: Tube Transmitters
by W2SH@aol.com
- 17) [123049] Metric Hardware Source?
by "Steve McDonald" <jsm@gulfislands.com>
- 18) [123050] Working with Surface Mount Components
by K9nk@aol.com
- 19) [123051] another toroid thought

by Bob Mason <skydive@usa.net>
20) [123052] Re: tube rigs
by Bruce Muscolino <w6toy@erols.com>
21) [123053] Re: tube rigs
by Bruce Muscolino <w6toy@erols.com>
22) [123054] Close shaves (was: Hold these two wires. . . .)
by "Dave Fifield" <dave@redhotradio.com>
23) [123055] Re: Close shaves (was: Hold these two wires. . . .)
by "Leon Heller" <leon_heller@hotmail.com>
24) [123056] Re: Working with Surface Mount Components
by "Leon Heller" <leon_heller@hotmail.com>
25) [123057] worst incident
by K1zw@webtv.net (Larry B)
26) [123058] Re: Close shaves (was: Hold these two wires. . . .)
by Haines Brown <brownh@hartford-hwp.com>
27) [123059] gloves and HV...clarification.
by Mighty Mik <mightymik2@attbi.com>
28) [123060] RE: Working with Surface Mount Components
by "Ed Tanton" <n4xy@earthlink.net>
29) [123061] Re: Atlanticon speaker: Dave Gauding, NF0R
by K5BDZ@aol.com
30) [123062] Re: Metric Hardware Source?
by "E. Roswell" <eroswell@monmouth.com>
31) [123063] Re: Close shaves (was: Hold these two wires. . . .)
by David J Adams <david@theadamsclan.com>
32) [123064] PESKY -- eQSLs OK
by Chuck Carpenter <w5usj@9plus.net>
33) [123065] Re: Working with Surface Mount Components
by David Hinerman <wd8civ@worldnet.att.net>
34) [123066] Re: Close shaves (was: Hold these two wires. . . .)
by David Hinerman <wd8civ@worldnet.att.net>
35) [123067] Re: Metric Hardware Source?
by "Rod N0RC" <rod@n0rc.com>
36) [123068] Re: Metric Hardware Source?
by Tim - N9PUZ <N9PUZ@arrl.net>
37) [123069] NC20 - Manhattan Style
by "Carel Mulder" <cmulder@wanadoo.nl>
38) [123070] NJQRP HB Sprint & "Space WX"
by "Rod N0RC" <rod@n0rc.com>
39) [123071] Power Management Contest - Results
by Larry Cahoon <lejek@erols.com>
40) [123072] Counties Round Two - IN, IL, OH
by Larry Cahoon <lejek@erols.com>
41) [123073] DXCC QRP
by Larry Cahoon <lejek@erols.com>
42) [123074] Re: NJQRP HB Sprint & "Space WX"
by W2AGN <w2agn@pobox.com>
43) [123075] New K1, something to watch for

- by Bob Mason <skydive@usa.net>
- 44) [123076] wilderness website down?
by AC6JA@aol.com
- 45) [123077] Elecraft KFL1-4 Four-Band Filter Board Mod de K7QO
by Chuck Adams <k7qo@earthlink.net>
- 46) [123078] OT: oshiba keyboard
by "Hubert Smits" <hubert.smits@btinternet.com>
- 47) [123079] solder pot
by Bruce Rattray <rattray@gpfn.sk.ca>
- 48) [123080] Tiny Tornado Band?
by ARDUJENSKI@aol.com
- 49) [123081] FS Icoms
by "Francis Callahan" <colcal@srv.net>
- 50) [123082] NC20 Pout Question
by "Rod N0RC" <rod@n0rc.com>
- 51) [123083] Re: Close shaves
by kc0bom@arrl.net
- 52) [123084] Re: NJQRP HB Sprint & "Space WX"
by Steven Weber <kd1jv@moose.ncia.net>
- 53) [123085] QRP Newcomer Questions
by Tim - N9PUZ <N9PUZ@arrl.net>
- 54) [123086] FS: QRP kits and OHR-500...>
by Patrick Armstrong <aa7fg@gte.net>
- 55) [123087] Re: Working with Surface Mount Components
by Dan Tayloe <dtayloe@cox.net>
- 56) [123088] Re: QRP Newcomer Questions
by tailfeathers@juno.com
- 57) [123089] Homebrewer Sprint TODAY!
by Ken Newman <n2cq@dandy.net>
- 58) [123090] Re: NC20 Pout Question
by Pete Burbank <plburbank@kih.net>
- 59) [123091] NC-20 p out
by Pete Burbank <plburbank@kih.net>
- 60) [123092] random wire antennas?
by Schunn99@aol.com
- 61) [123093] Re: QRP Newcomer Questions
by "Jason Nochlin" <jman0iin@attbi.com>
- 62) [123094] WTB: TenTec 1254 SWL RX
by "N3BJ" <N3BJ@hotmail.com>
- 63) [123095] Random thoguhts on random wire antennas
by "James R. Duffey" <jamesd1@flash.net>

Date: Sat, 23 Mar 2002 19:26:12 -0500
From: "Marty N5NW" <n5nw@n5nw.org>
To: "QRP" <qrp-1@lehigh.edu>
Subject: [123033] FDIM/Hamvention Travel

Message-ID: <HJELKOJDNFAJGICJMIFGMEAFDEAA.n5nw@n5nw.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have to make a business trip from Dayton to Baltimore on Sunday, May 19.
I'll be leaving for the airport around 11:00am from my home in SE Dayton.
If anyone needs a ride from FDIM/Hamvention to the airport around that time,
I can arrange to give a ride to two folks (not too much baggage, please!).
Only folks I couldn't pick up are those staying in Warren, Butler or Preble
Counties, or by Wright State University/Wright-Patterson AFB. Those would
be too far out of the way.

email if interested. I am NOT flexible on the times (my flight leaves at
1:25pm, Dayton to Detroit, then Detroit to BWI).

de N5NW/8 (Marty)
Bellbrook/Dayton, OHio

Date: Sat, 23 Mar 2002 20:35:44 -0500
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [123034] 20 meters Saturday night
Message-ID: <001c01c1d2d4\$38278ba0\$1ae35cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Wow, forget about trying to make any contacts on 14.060 on Saturday night.
XR0X is setup on 14.052 and he is listening up.

72
Ron Polityka
WB3AAL
www.n3epa.org

Date: Sat, 23 Mar 2002 18:59:59 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: lhlousek <lhlousek@nvbell.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [123035] Re: Airport security.
Message-ID: <Pine.LNX.4.33.0203231855041.2998-1000000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Lou, Glad to see the random search is a good one. I have made several trips and I was not subjected to any search at all. But was subjected to long delays while sub-human people fooled around with a X-Ray unit and had zero idea what a bomb will look like holds up the line for over an hour most times.

If I was a terrorist I could have taken over the plane with as much ease as the real ones did. But we seem unable to do what's right. Wonder why?

On Sat, 23 Mar 2002, lhlousek wrote:

> I've taken at least 20 round trips on commercial airlines since Sep 11 carrying
> aboard my K1, 14' fishing pole, antennas wires, etc.. Never once did anybody
> question the ham stuff, even when singled out for random searches... until last
> Wed.

>
> Lou W7DZN
>
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Sat, 23 Mar 2002 21:15:39 -0500
From: "N3BJ" <N3BJ@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123036] Need Original NC-40 Manual
Message-ID: <0E64oYAPNXRPmcarcR400014e48@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Need the original NC-40 manual. Would be glad to pay copying and mailing

costs.

Alan, N3BJ
Bent Mountain, VA

Date: Sat, 23 Mar 2002 21:30:53 -0500
From: Hank Kohl K8DD <k8dd@arrl.net>
To: k5di@zianet.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [123037] Re: Airport security.
Message-ID: <5.1.0.14.2.20020323212737.025238e0@mail.arenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 3/23/02 06:59 PM -0700, Karl F. Larsen wrote:

>Hi Lou, Glad to see the random search is a good one. I have made several
>trips and I was not subjected to any search at all. But was subjected to
>long delays while sub-human people fooled around with a X-Ray unit and had
>zero idea what a bomb will look like holds up the line for over an hour
>most times.
>
>If I was a terrorist I could have taken over the plane with as much ease
>as the real ones did. But we seem unable to do what's right. Wonder why?

And if you were a terrorist you might have been profiled going through
security. Then again at the gate you could have been profiled. Then on
the plane you would be profiled. There is a whole lot more of that going
on than ever before.

73 Hank K8DD

Date: Sat, 23 Mar 2002 22:37:21 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <njqrp@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>,
". Eastern PA QRP Club" <EPA-QRP@yahoogroups.com>
Subject: [123038] Atlanticon speaker: Dave Gauding, NFOR
Message-ID: <014e01c1d2e5\$373860f0\$ebc23ad0@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We are so very pleased to be spotlighting Dave Gauding, NF0R as one of the illustrious presenters at this year's Atlanticon QRP Forum. Dave has prepared a wonderful paper for the printed Proceedings and will be presenting it in slot #3 at 11:30am two weeks from today. (Yikes, only 14 days remaining until Atlanticon!)

We'd like to give everyone a little flavor of his topic and about NF0R himself.

Dave Gauding, NF0R will be talking about his latest "Trailside QRP Station". After waiting fifteen years for just the right portable single-band CW rig to come along, he finally gave up and crafted his own. Starting with a DSW-20 transceiver, Dave Gauding added mod after mod to realize his expectations for a truly high-performance portable station. His presentation is decidedly non-technical and easy to follow. It will include several of the highly-portable homebrew vertical antennas that accompany him to the field and other uniquely "St. Louis" projects.

NF0R was licensed in 1980 and has been enjoying CW and low power ever since. He has been an enthusiastic portable op for an entire ham career and spent his first eighteen years on the air as a cliffdweller. Dave Gauding is a "kick the tire" experimenter and has a long established interest in milliwattting. His published projects include the Aluminum Cloud Antenna, Random Wire Vertical, St. Louis Vertical, St. Louis Express, St. Louis Pocket Vertical & St. Louis Coil, St. Louis Quickie, St. Louis Vest Pocket Vertical, St. Louis Doublet, St. Louis Radials, St. Louis Audio Amp and the St. Louis Paddle. He is a founding member of the St. Louis QRP Society and has served as editor and co-editor of its monthly "Peanut Whistle" since that club was organized in 1987. When not running homebrew gear, Dave operates with his collection of vintage Ten-Tec transceivers and Brown Bros. keys.

Details concerning the annual Atlanticon QRP Forum being held in Baltimore, MD on April 5-6 can be found at <http://www.njqrp.org/atlanticon/index.html>. It's not too late to reserve a room at the hotel and get a Badger Kit and Baltimore-area Info Package with your registration payment. Great presentations, prizes, fun and friends.

73, George N2APB, n2apb@amsat.org
for the NJQRP Club at <http://www.njqrp.org>

Date: Sat, 23 Mar 2002 22:39:28 -0500
From: wb4mnf <wb4mnf@atl.org>
To: KD5NWA@mbayona.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [123039] Re: Safety First
Message-ID: <3C9D4A70.70605@atl.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

You should see some of the russian amps that run voltage multipliers
straight off the 220V AC line.

here's a 3 KV transformerless supply!

<http://ru3ga.qrz.ru/LAMP/rd1333.htm>

and some amps using other transformerless supplies

<http://ru3ga.qrz.ru/LAMP/1.htm>
<http://ru3ga.qrz.ru/LAMP/4.htm>

-bob

Date: Sat, 23 Mar 2002 19:56:49 -0800
From: "Bill Jones" <kd7s@psnw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123040] This sort of kindness is rare
Message-ID: <003201c1d2e7\$ed43b3c0\$0b8b6bd1@microsoft>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Friends,

A few days ago I put out a plea for a manual for an AEA PK-232MBX. No less
than a dozen people offered to help by either making copies of their own
manuals or a willingness to send me a surplus manual. As it turned out, I

was able to locate my own manual hiding between a Ford Bronco repair book and a bicycle shop manual. But the generosity and kindness of members of qrp-l has once again proved to be the exception in an otherwise very selfish world. It is an honor to be associated with people such as yourselves. Thank you.

=====

Bill Jones - KD7S <><
Sanger, California

=====

Date: Sat, 23 Mar 2002 22:55:06 -0500
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [123041] Re: tube rigs
Message-ID: <3.0.6.32.20020323225506.0079f4f0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:18 AM 3/23/02 -0800, you wrote:

>Anyone try wearing latex gloves while 'operating' on a tube rig? Not trying
>to instill a false sense of security or anything, but maybe this is
>something that is around now and wasn't then? Anyone know what the
>breakdown voltage of that type of glove is?

I don't know about breakdown voltage, but I do know the rubber liners in linemen's gloves are tested for pinhole air leaks before being put in use. Even the tiniest hole can allow conduction, rendering it useless or worse. (A false sense of security can be dangerous.)

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Sat, 23 Mar 2002 19:18:38 -0800
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@Lehigh.EDU>
Subject: [123042] Re: Atlanticon speaker: Dave Gauding, NF0R
Message-ID: <064001c1d2e2\$9a1cb8e0\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

George and guys, I want to say something about Dave Gauding. He is one of the true good guys of ham radio. He is a fantastic operator, builder and experimenter. But his greatest talent may be his promotion and support of QRP. Dave has written hundreds of articles in the Peanut Whistle, the St. Louis QRP Club newsletter that has had 125+ consecutive issues and counting. This year at the annual club building contest, Dave walked away with an arm load of prizes, and his winning "best of show" entry was a joy to behold. Dave is a wonderful speaker, he has been at Pacificon twice, Arkiecon, and now heads east for Atlanticon. I heartedly encourage you to attend Atlanticon if for no other reason than to meet one of the true "Heroes" of QRP, Dave Gauding, NF0R. By the way, when you see him, ask him how he got even with me last year. 72, Doug

PS: Dave, you owe me \$20 bucks for this one, grin.

Date: Sat, 23 Mar 2002 23:44:24 -0500
From: "DIANNE M WISE" <roy537@prodigy.net>
To: <casey.jay@gte.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123043] Re: ALT0IDS TINS
Message-ID: <000901c1d2ee\$93ae2f00\$5f97ff3f@rcrosier>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Today I noticed that Kroger's grocery stores in Ohio and West Virginia carry Whitman's tins in the candy section of the store. I believe that when I lived in Kansas last year that Hallmark's Card Stores occasionally had Whitman items.

Roy KE0UQ

Date: Sat, 23 Mar 2002 21:13:14 -0800
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123044] SoCal QRP?
Message-ID: <001401c1d2f2\$9a1d13c0\$0b02a8c0@0020115492>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Any QRP (esp. builders) in the Orange County, Southern California region?

--ian k3imw/6

Date: Sat, 23 Mar 2002 23:10:51 -0600
From: Mark Fields <mark_ke5my@juno.com>
To: qrp-l@Lehigh.EDU
Cc: hqrp@stevens.com, fpqrp-l@mpna.com
Subject: [123045] OT: Laptop--keyboard problems
Message-ID: <20020323.232045.-252357.4.mark_ke5my@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi everyone:

Several weeks ago, I posted a message asking if someone could send me a photocopy of the user's manual for the Toshiba T1000 laptop computer. There were several offers; I wound up accepting both a manual (original !) and a second T1000 for only shipping costs.

What I'm asking is this: The keyboard isn't working right (this is ****NOT**** to imply anything against the donor--the laptop had been in storage for several years, and it was working OK before that), and I'm considering cannibalizing the battery pack (the one in my original T1000 is dead) and the modem (my other doesn't have one), and install them in my other laptop. Does that sound feasible ? I've already tried (twice) spraying an aerosol duster between all the keys, with no results. Some of the keys don't respond at all (no character is placed on the screen) or else the character ***and*** those of one or two adjacent keys appear (e.g., pressing "i" results in "iop" showing on the screen).

Suggestions ? Recommendations ? Thanks in advance.

73, Mark, KE5MY
QRP-L #2365
FPQRP-L #416
Grid # EL29fp

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Date: Sun, 24 Mar 2002 00:53:07 -0500

From: Mike Czuhajewski <wa8mcq@comcast.net>

To: qrp-l@Lehigh.EDU

Cc: wa8mcq@comcast.net

Subject: [123046] Re: Computer Scanner does good job ..as good as a photo!

Message-ID: <001501c1d2f8\$2c0f3100\$33333044@gambrl01.md.comcast.net>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

"Since I dont have a digital camera..this gives me the means to "scan in" some of my projects and add them to the QRP section of the web page im making! This is new to me..maybe its old hat to everyone else i dont know!!"

Hey, I've been doing exactly this for a couple of years for my column in the QRP Quarterly! Most of my own "photos" for quite a few issues have actually been scans. And I don't just scan flat objects, either; I've done a number of things that are an inch or more tall and had excellent results. I finally broke down and bought a digital camera this Christmas and may use it for some photos for my column, but I'm going to be sticking with the flat bed scanner for some time to come! Flat bed scanners are the poor man's digital camera :-)

BTW, when scanning something for publication, or using a digital camera, if it's going to be used in a paper publication as opposed to a web page, DO NOT scrimp on the resolution and file size! Keep the resolution as high as possible, and don't compress it with the highest possible JPG ratio. Pictures that look perfectly acceptable on a computer screen don't always translate well onto paper. I'd heard that for a long time and observed it for myself.

I often send in picture files for my column of a few hundred KB. If those were used on a web page they'd probably be overkill, and take a long time to download to boot, but for paper publications bite the bullet and keep the resolution as high as possible and the compression as low as possible. The end result on the printed page is well worth the extra effort.

In 2001 I had 15 "photos" in my column that were actually scans; 9 in January, 1 in July and 5 in October. And the January 2002 issue (I just got my advance copy, so it does exist) has 5 and the April 02 column will have two. (I don't have any earlier issues at hand.) BTW, looking back at those

2001 issues I noticed that every page of April said "April 01" on the bottom--and every page of the July issue also says "April 01" :-)

73 and queue our pea DE WA8MCQ

Date: Sun, 24 Mar 2002 00:53:49 -0500
From: Bob Mason <skydive@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [123047] Pre-Wound Toroids = Good stuff
Message-ID: <NFBBLFFOILIDGGKFDNEBCEHOCDAA.skydive@usa.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

Well, spent a marathon day getting K1 s/n 1150 on the air. Got the K1-4 and antenna tuner. Decided to let Mychael AA3WF (The Toroid Guy) save me some time and grief. Probably my best move in years.

They got here the same day the kit arrived. All nice and neat, in little envelopes marked with their board and part designation. All wound, tinned and ready to solder in. Ya couldn't make a neater toroid with an Acme Toroid-O-Matic machine. Everything went in, worked fine and I didn't have to swear at any knots, kinks, or cores that rolled under the bench.

I'll give them a thumbs-up with all ten of my thumbs

73 / 72

Bob WB8CAC

P.S. Only problem building the radio was an open in the circuit board run between the driver and final, took a bit to find. Otherwise very happy with all 1 of the contacts I've made.

Date: Sun, 24 Mar 2002 01:01:54 EST
From: W2SH@aol.com

To: qrp-1@lehigh.edu
Subject: [123048] RE: Tube Transmitters
Message-ID: <155.b11dea8.29cec5d2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thanks to Ray, W5XE, Walter, AG5P and Carol, W4CLM, we were able to have a look at the one-tube rig described in Electronics Illustrated for March 1968. As I recall, that publication, and probably Popular Electronics as well, was pretty much geared to the beginner in electronics. Ham radio was only one of several areas they both covered.

Sensing that the glow of this interesting thread may be starting to fade, I'd like to share a little research I've just done on this subject.

I looked over my files and tagged a total of 27 simple tube transmitters whose circuits were published between 1939 and 1966, variously in QST (9), Radio (1), CQ (10), Radio News/Radio & Television News (3), and from 1992 to 1999 in Electric Radio (4). Additionally, CQ in recent years has published some of these old designs. Their November 2001 issue shows a single tube 6AQ5, a single tube 6GW8, and a regenerative receiver using a 3A4 tube and a LM386 audio amplifier.

Some of the rigs feature am phone operation using high level plate modulation, but ducking the need for a modulation transformer by choosing the Heising system, which calls for only a choke.

Most of the rigs are crystal controlled and cover only one band. One showed a 6V6 driving a grounded grid 6L6 to 30 watts input. Although several rigs use tubes with their 6.3-volt filaments lit by a transformer (a wall wart could be used as well), a number use tubes with higher voltage heaters, thus avoiding the need for a filament transformer. Power supplies are often the transformerless variety, an approach which today, with the near universality of wall outlets providing a real ground, are safer than was the case 40 years ago.

How about:

1. 6J5 oscillator, 25L6 p.a., 25L6 plate modulator.
2. Two push-pull 50B5s with 25 watts plate input power.
3. Two paralleled 50B5 with 20 watts plate input power.
4. Two push-pull 117L7GTs with 18 watts output.
5. A 50L6 (just one) with 22 watts output (ouch).

6. A 6C4 oscillator and two paralleled 50C5s with 20 watts plate input.

7. A 6N7 vfo and two 6L6s with 40 watts plate input.

8. A 6L6 vfo on 80 meters, electron coupled through its screen grid, doubling in the plate circuit to show a plate input power of 11 watts on 40 meters.

9. To cover 80 and 40 meters, a 6AK6 oscillator and 6AQ5 p.a. combined with an antenna coupler and power supply, plus a two-tube superhetrodyne receiver, all this inside a 5" x 6" x 9" box.

And more.

72/73,

Charles, W2SH

Date: Sat, 23 Mar 2002 22:16:36 -0800
From: "Steve McDonald" <jsm@gulfislands.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [123049] Metric Hardware Source?
Message-ID: <001101c1d2fb\$75c12120\$6a11f4cc@jsm>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone know of an online source of small metric hardware? I am in the process of stripping 8 VCRs' and getting some very nice small screws (and RF chokes, caps, cables, cable connectors, power supplies...these things are loaded!) and now need some small metric nuts for the collection.

Steve / VE7SL

Date: Sun, 24 Mar 2002 01:23:58 EST
From: K9nk@aol.com
To: <qrp-l@lehigh.edu>
Subject: [123050] Working with Surface Mount Components
Message-ID: <d0.24647799.29cecaff@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

I am thinking about building one of the Embedded Research Tick Surface Mount Keyer kits. I've never worked with surface mounted components and thought this would be a good first project.

I know these parts are really small. Can someone share the techniques of holding a part down on the board and how to solder it. Anything I should look out for that causes a mistake by a beginner??

Has anyone built this kit --- any comments??

Tks and 72's - Norm - K9NK

Date: Sun, 24 Mar 2002 01:30:24 -0500
From: Bob Mason <skydive@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [123051] another toroid thought
Message-ID: <NFBBLFFOILIDGGKFDNEBEEHPCDAA.skydive@usa.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

On the down side, getting the toroids pre-wound gets the kit on the air faster and easier, but doesn't keep you from having to wind toroids.

I'm now sitting here looking at about 20 left over cores and a bunch of wire and wondering:

What can I build to use these.

Ya just can't win

Bob WB8CAC

Date: Sun, 24 Mar 2002 05:37:55 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: mightymik2@attbi.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [123052] Re: tube rigs
Message-ID: <3C9DAC83.50DB3E45@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

An interesting idea, but one that begs the question! Latex gloves are much more common today then they were back then, but they still do not compensate for SAFE operating conditions! Wearing steel lined gloved does not offer a lot of protection when holding a hand grenade. If you've ever gotten hit by really high voltage, it's not something you want to play with! Careful design and construction works better!

73

>

> Anyone try wearing latex gloves while 'operating' on a tube rig?

Date: Sun, 24 Mar 2002 05:50:29 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: carlseye@tampabay.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [123053] Re: tube rigs
Message-ID: <3C9DAF75.E3FAE448@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Carl,

I learned many of the same lessons but at a later time. On general, the lesson is the same as taught to fledgling carpenters, measure twice, cut once!

High voltage can kill you. Even 115 volts can kill you. The secret to a longer life is to take all the necessary precautions UP FRONT.

Turn the power off if at all possible, otherwise keep one hand in your pocket! Ground all filter capacitors whenever possible. Use your head! Remember, danger is only a finger away!

73

Date: Sun, 24 Mar 2002 03:32:27 -0800
From: "Dave Fifield" <dave@redhotradio.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123054] Close shaves (was: Hold these two wires. . . .)
Message-ID: <016801c1d327\$93d85c60\$0200a8c0@AD6A>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Like Kory, I can vividly remember the big shocks I have experienced as well as some other life threatening moments. I can't sleep, so I may as well tell my tales ...sorry if I bore you (use the delete key).

At 17 yrs old, in England, I had re-wired the outside garage ac feed for my dad. I was winding up the old cable from the garage end and was nearly at the house when the bare ends of the wire touched my left arm - 240V can pack a punch alright. All the muscles in my left hand/arm were clenched up from the ac current - I couldn't let go - I had to grab the wound-up coil of wire with my right hand and pull it off my left arm....I must've done that real fast! Where the wires had touched my skin was pretty badly burned. Needless to say, I had to sit down for a while....and since then I have always checked and double checked all wiring for live volts before going anywhere near it!

Another time, when I worked in Oman on radars, I was doing some checks in a C-Band heightfinder radar cabin. I had to pull out a sliding rack to do some signal level checks (a whole rack of electronics produced a DSP that you would laugh at these days - most PC's have more computing power!). As I pulled the rack's handle and slid it out towards me, I naturally took a step backwards. Unfortunately, some twit had left the cover off the main ac feed to the klystron cabinet behind me and my ankle met the fuses straight on. I got full 440V 3-phase from my ankle to my hands which were still holding the DSP rack! I was literally thrown backwards (muscles automatically contracted - you have no control in this situation!) and smacked full force into the RF cabinet. My head broke a couple of meters and my torso bent the RF cabinet door pretty good. The GFI's kicked in and the whole radar shut down....I must've blacked out for the next thing I knew, someone had come running from the main building to see what the power-off alarm was all about. I took the rest of the day off.

I guess I was lucky. I knew of another chap (only by name)

who got killed while changing an L-band magnetron.
He was in the process of using the grounding hook to
discharge the *massive* HT caps in the RF cabinet when
some joker came up behind him, clapped his hands and
shouted BANG! The guy jumped and you know the rest....

Moral - stick to 13.8V gel cells and QRP, it's much safer!!

I can also remember nearly being drowned as an 8 year old
off the coast of Kenya - a huge wave pumelled me into the
sand and I lost all track of which way was up/down, got
tons of water in my lungs but made it coughing/spluttering
to the shore.

A couple of other times in more recent years, I have been
nearly killed by pulminory embolisms (DVT from long
distance flights - that's why you won't see me at Dayton
/Atlanticon/Arkicon etc. until I can retire and drive there).

By my reckoning, I have cheated death 5 times so far.
All in all, I consider myself lucky to still be alive!! I make
the most of life every day but still need to cut down the
carbs/fat and get more exercise.....

Cheers es 72,
Dave F.
AD6A

----- Original Message -----

From: "Kory Hamzeh" <kory@avatar.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, March 23, 2002 12:50 PM
Subject: RE: Hold these two wires. . . .

> When I was about 4 or 5 years old, I touched a 240 v outlet and went
flying
> across the room. I still can remember it like is was yesterday! :-)
>
> 73,
> Kory
> AC6RN
>

Date: Sun, 24 Mar 2002 11:55:28 +0000
From: "Leon Heller" <leon_heller@hotmail.com>

To: dave@redhotradio.com, qrp-1@Lehigh.EDU
Subject: [123055] Re: Close shaves (was: Hold these two wires. . . .)
Message-ID: <F182a3grvPOu2DEwN4V0001a473@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

The worst incident I've ever seen was at the English Electric factory in Kidsgrove, UK, about 40 years ago. An engineer in the adjoining lab somehow got his hands across two bus bars of a 3-phase 440 V supply. Someone hit one of the emergency stop buttons that were around the lab walls, but the motor-generator in the basement didn't trip out, and they had to go down and break the supply manually. He must have been across the supply for a couple of minutes or more, and couldn't let go. Luckily, he just had two badly burned hands, and was back at work a couple of days later, heavily bandaged.

The worst shock I've ever had was from the UK 230 V mains. I can't remember how I did it - probably wiring a transformer - but I got both hands across line and neutral and felt all my chest muscles contract painfully. I let go quickly, otherwise I probably wouldn't be around to write this. My chest ached for a few days afterwards.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

MSN Photos is the easiest way to share and print your photos:
<http://photos.msn.com/support/worldwide.aspx>

Date: Sun, 24 Mar 2002 12:12:05 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: K9nk@aol.com, qrp-1@Lehigh.EDU
Subject: [123056] Re: Working with Surface Mount Components
Message-ID: <F8624dsPkskqedC8mOL000220de@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>I know these parts are really small. Can someone share the techniques of
>holding a part down on the board and how to solder it. Anything I should
>look out for that causes a mistake by a beginner??

You need the following: a decent soldering iron with a very fine tip, some really thin solder, some narrow desolder braid, a magnifier and a pair of stainless steel tweezers.

Tin one of the pads lightly, position the component with the tweezers and tack down the lead on the tinned pad. Solder the other leads, holding the component in position if required with the tweezers then return to the tacked down lead and resolder it. With ICs tack down two diagonally opposite leads first to hold the chip in position, before soldering the remainder and returning to the tacked down leads. Clean up any shorts with the desoldering braid.

With very fine pitch devices, tack them down and apply a suitable liquid flux, flood the leads with solder and remove the excess with the desolder braid. Remake any suspect joints by reheating with the soldering iron.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

MSN Photos is the easiest way to share and print your photos:

<http://photos.msn.com/support/worldwide.aspx>

Date: Sun, 24 Mar 2002 06:36:28 -0600 (CST)

From: K1zw@webtv.net (Larry B)

To: qrp-1@lehigh.EDU

Subject: [123057] worst incident

Message-ID: <23802-3C9DC84C-1336@storefull-2313.public.lawson.webtv.net>

Content-Disposition: Inline

Content-Type: Text/Plain; Charset=US-ASCII

Content-Transfer-Encoding: 7Bit

MIME-Version: 1.0 (WebTV)

In 1968 a storm took down a wall at a construction site which buried several cars and a 7500 volt power line in Dallas Texas. As a police officer at the time me and several fireman attempted to dig out a victim in one of the cars. I came incontact with the downed power line (it was raining at the time) and a near by fireman saved my life by hooking his fire axe under my sam brown and pulling me off the wire. Several months later and much plastic surgery , skin grafting etc I was back on my feet. I am lucky to be here.

K1zw
Larry
Qcwa

Date: Sun, 24 Mar 2002 07:44:10 -0500
From: Haines Brown <brownh@hartford-hwp.com>
To: dave@redhotradio.com
Cc: qrp-1@Lehigh.EDU
Subject: [123058] Re: Close shaves (was: Hold these two wires. . . .)
Message-ID: <200203241244.g20CiAP16137@langhans.hartford-hwp.com>

Sorry to add stories, but can't hold myself back.

At one point I repaired (G.E.) Xray machines. One day we were having lunch and sitting on the rail along which the x-ray machine travels beside the table. We had pulled the high voltage connector from the tub housing and set it on a cardboard box. For some reason the power was on. Naturally, the high voltage wire fell and hit the track with an explosion. Lucky it was properly grounded, for else would have eaten 100 kV for lunch.

Another story. I was once repairing a radar system on a submarine, and noticed that my hand was getting warm. I realized that I had carelessly placed my hand on the outgoing waveguide that was disconnected from the antenna. Didn't think to patent microwave cooking at the time, though.

Haines KB1GRM

Date: Sun, 24 Mar 2002 04:55:40 -0800
From: Mighty Mik <mightymik2@attbi.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [123059] gloves and HV...clarification.
Message-ID: <5.1.0.14.0.20020324045320.02375eb8@mail.attbi.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I didn't mean using gloves as a substitute for safe practices, but as an additional option.

Date: Sun, 24 Mar 2002 08:01:56 -0500
From: "Ed Tanton" <n4xy@earthlink.net>
To: <leon_heller@hotmail.com>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [123060] RE: Working with Surface Mount Components
Message-ID: <000001c1d334\$14563a40\$c39efea9@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Perfect advice from Leon. Good magnifying specs are a big asset too.

73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Sun, 24 Mar 2002 08:03:32 EST
From: K5BDZ@aol.com
To: n2apb@erols.com, qrp-l@lehigh.edu
Subject: [123061] Re: Atlanticon speaker: Dave Gauding, NF0R
Message-ID: <33.2479c739.29cf28a4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Folks, Dave Gauding NF0R is to QRP what General Bradley, "The GI's General" was to his troupes. Dave has been there, done that, and his abilities to put into "practical application" and "understandable explanation" are exceptional.

If you note from his many e-mails to the reflector, Dave never says "you can't do that - or it won't work".... Dave DOES say, "sure that works and here's the way to do it" with "off the shelf, simple methods"

Sorry I will miss this one. Mom's getting a new knee, and Dad's planning to turn his pacemaker up a notch to go dancing when she comes home (86 and 90 respectively) so my commitments are important and elsewhere.

Bill K5BDZ

Date: Sun, 24 Mar 2002 08:26:05 -0500
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-1@Lehigh.EDU
Subject: [123062] Re: Metric Hardware Source?
Message-ID: <3C9DD3ED.A8373AAC@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Try Micro Fasteners at:
<http://www.microfasteners.com/index.cfm>
I got their paper catalog, and they list it on-line, but have not yet bought anything from them.
73, Ed, K2MGM

Date: Sun, 24 Mar 2002 08:45:25 -0500
From: David J Adams <david@theadamsclan.com>
To: brownh@hartford-hwp.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [123063] Re: Close shaves (was: Hold these two wires. . . .)
Message-ID: <3C9DD875.4050702@theadamsclan.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Geez...and I thought it was something when I got hit by lightening in college. It is amazing that some of you guys are still standing.

73 de dave, n9uxu

Date: Sun, 24 Mar 2002 07:47:28 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu
Subject: [123064] PESKY -- eQSLs OK
Message-ID: <3.0.2.32.20020324074728.00696474@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

PTA Chasers,

eQSLs OK for QSOs with this QTH during the Pesky Texan Armadillo Chase.

Any other time too.

Chuck Carpenter, W5USJ, Point, Rains Co, TX EM22cv, NE-TX QRP #1

Date: Sun, 24 Mar 2002 08:34:11 -0500
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [123065] Re: Working with Surface Mount Components
Message-ID: <3.0.6.32.20020324083411.0079cc70@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:23 AM 3/24/02 EST, you wrote:

>I am thinking about building one of the Embedded Research Tick Surface Mount Keyer kits. I've never worked with surface mounted components and thought this would be a good first project.

>

>I know these parts are really small. Can someone share the techniques of holding a part down on the board and how to solder it. Anything I should look out for that causes a mistake by a beginner??

>

>Has anyone built this kit --- any comments??

Norm,

I built the SMK-1 using a method someone on the list suggested - dip just the tip of a bamboo skewer in paste flux (I bought a tube of the stuff at Radio Shack) and lightly touch the component you're going to mount. the flux gives just enough adhesion to pick up the part, then you can move it, orient it, and hold it in place while you solder one lead to the board. Once one lead is attached, it'll hold the part in place until you can solder the remaining leads. (Unless you pull one of my tricks and heat the part so much that the soldered lead comes unsoldered - then the part sticks

to the iron, and you have to pick it off and start over.)

A good head- or bench-mounted magnifier does wonders, too.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Sun, 24 Mar 2002 08:44:48 -0500
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [123066] Re: Close shaves (was: Hold these two wires. . . .)
Message-ID: <3.0.6.32.20020324084448.0079d590@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:32 AM 3/24/02 -0800, you wrote:
>discharge the *massive* HT caps in the RF cabinet when
>some joker came up behind him, clapped his hands and
>shouted BANG! The guy jumped and you know the rest....

Dave,

I worked with a really nice guy whose worst habit was playing that "joke."
He did it to me one day (even though I'd gently told him that it was a bad
idea when he did it to others) while I was testing 480-volt MOVs. I jumped
(not into the HV, thankfully) and whirled around when I heard him chuckle.
When he saw my fist cocked and aimed at his face, I think he got the
message because he never did it again.

I've never struck anyone, and I'm glad I didn't then, but there are some
gags that I just don't have any patience for. We (the whole shop - we were
a bunch of parctical jokers) finally agreed on a set of rules for shop jokes:

- 1) Nobody gets hurt.
- 2) Nothing gets lost or damaged that can't be replaced.

>the most of life every day but still need to cut down the
>carbs/fat and get more exercise.....

Same here. Maybe you can design us a jogger-friendly portable rig? Like
those little radio/MPs players that strap onto the upper arm?

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Sun, 24 Mar 2002 07:10:29 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: <jsm@gulfislands.com>
Subject: [123067] Re: Metric Hardware Source?
Message-ID: <002101c1d33d\$a8015550\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Steve,

Do a Google www.google.com, search for "metric hardware". You'll get 186,000 hits, approximately.

73, Rod N0RC
Fort Collins, CO

----- Original Text -----

Subject: Metric Hardware Source?
From: Steve McDonald (jsm@gulfislands.com)
Date: Sun Mar 24 2002 - 01:16:36 EST

>

> Does anyone know of an online source of small metric hardware? I am in the

Date: Sun, 24 Mar 2002 09:04:15 -0600
From: Tim - N9PUZ <N9PUZ@arrl.net>
To: jsm@gulfislands.com,
 Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [123068] Re: Metric Hardware Source?

Message-ID: <005e01c1d345\$2a5c9800\$a400a8c0@EOS>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

> Does anyone know of an online source of small metric hardware? I am
in the
> process of stripping 8 VCRs' and getting some very nice small screws
(and RF
> chokes, caps, cables, cable connectors, power supplies...these
things are
> loaded!) and now need some small metric nuts for the collection.

Do a search for a company called Micro Fasteners. They sell in small
quantities and have good service.

Tim N9PUZ

Date: Sun, 24 Mar 2002 16:08:29 +0100

From: "Carel Mulder" <cmulder@wanadoo.nl>

To: <qrp-l@Lehigh.EDU>

Subject: [123069] NC20 - Manhattan Style

Message-ID: <000d01c1d345\$c2421780\$02c8c8c8@Zolder01>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi all,

On 13 februari I announced the rebuild of the NC20 using Manhattan style. At the
moment I've
finished the VFO, transmitter, audio and AGC circuits (pages 1, 3 and 4 of the
schematics). I'm
not in a hurry, learning Manhattan style is part of the exercise too.
After each stage I tested the circuit that was build and everthing works fine. The
only thing
that went wrong was the pin connection of the PN2222A. This transistor is not
commonly used here
so I had to lookup the information. Downloading Fairchild's PDF file went very
slowly at the
time so I picked up another one (AUK Semiconductor) from the list that Google had
found for me.
After some hours of experimenting why the output of the VFO's buffer amp was not
correct, I

figured out that the pin connection mentioned in the AUK's productinfo was opposite to the Fairchild's parts. They both described a T092 case but emitter and collector were mirrored! At least that's how I *read* the product specs.

Using a 13V power supply, the output is 4Watts now. Without the Schottky diode 1N5822 in the power-line the output is about 4.2Watts. Power consumption is about 800mA. Perhaps there is some tolerance in the 2N5179/PN2222's because the measured A.C. voltage at the emitter of Q15 is just 2.5V p-p where it should be 3V p-p. Is this a *normal* value or do I have search on?

Anyway it is a very nice project and I hope the rig will be finished before summer holidays. As mentioned before, you can see what I've made until now by visiting my homepage where 42 picture show you my "NCmu20".

72, Carel - PA0CMU

<http://home.wanadoo.nl/cmulder>

Date: Sun, 24 Mar 2002 08:53:08 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123070] NJQRP HB Sprint & "Space WX"
Message-ID: <000701c1d34b\$fe812910\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Be prepared for some rough "Space Weather" during the NJQRP HB Sprint later today.

73, Rod NØRC
Ft Collins, CO

----- Original Message -----

From: "Space Environment Center" <sec@sec.noaa.gov>
To: <www-list-send@dawn.sec.noaa.gov>
Sent: Sunday, March 24, 2002 8:06 AM
Subject: WWV-Message

> :Product: Geophysical Alert Message www.txt
> :Issued: 2002 Mar 24 1506 UTC
> # Prepared by the US Dept. of Commerce, NOAA, Space Environment
Center
> #
> # Geophysical Alert Message
> #
> Solar-terrestrial indices for 23 March follow.
> Solar flux 170 and mid-latitude A-index 10.
> The mid-latitude K-index at 1500 UTC on 24 March was 4 (54 nT).
>
> Space weather for the past 24 hours has been moderate.
> Geomagnetic storms reaching the G2 level occurred.
> Solar radiation storms reaching the S1 level occurred.
>
> Space weather for the next 24 hours is expected to be minor.
> Geomagnetic storms reaching the G1 level are expected.
> Radio blackouts reaching the R1 level are expected.
>

Date: Sun, 24 Mar 2002 15:55:40 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-1@lehigh.edu
Subject: [123071] Power Management Contest - Results
Message-ID: <5.1.0.14.0.20020324154411.00b87c38@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

It is about time I got around to posting the results of this thing. If you recall this is a test of running your rig on a set AA batteries as a piggyback to the NA QSO Party. Total participation was not great, but hay that makes it easier to win. Last August I got no entries besides my own. This time I got to others. So the scores are:

WD3P - 107 QSOs - 58 Mults - 6,205 Points

AE5X - 87 QSOs
KG4LDY - 19 QSOs - 16 Mults - 288 Points

Since the sponsor can not win a contest I Congradule John on a fine job - he has won this round of the power management contest.

Soapbox.

WD3P

Equipment was 10 1600 mAh MAHA NiMH batteries charged the morning of the contest - they started off at 13.68 volts. I worked 80 through 15 meters using the Sierra for 80 and 15 and the K1 for 40 and 20. Power levels were between 500 mWatts and 2.5 watts with almost all QSOs between 1 and 2 watts.

AE5X

I operated the contest yesterday for a total of 5 hours, not so much to accumulate a score but to see how the K1 gets along with AA batteries. I had wanted to use rechargeable NiMH batteries but I did not have time to get them charged before the contest started so I used a fresh pack of 8 (not 10) alkaline batteries since that is what fits in the internal battery pack. I set the RF output on the rig to 2 watts and operated on 15, 20 and 40 meters with 15m being the most beneficial for making rapid contacts. Starting voltage (key up) for the 8-pack was 12.6 volts. After 5 hours and 87 contacts, voltage was 11.3. I wish I had been better prepared for this but just got my 4-band module completed the day before the contest and was still in the "play with the new toy" mode. Best DX during the contest was during a break from it on the low end of 40m - LZ1ANA and S57VK.

KG4LDY

Went to Radio Shack and bought two four AA battery holders and wired them to run my recently built SW-20+. Used this mostly to test the new rig. No other rig used. Used Radio Shack alkaline 1.5 V. AA batteries. No special power conservation steps were taken. Output power is between 1.5 and 2 watts. Antenna is inverted vee with feedpoint at 30 ft. Total time less than 2 hours.

Tnx to all - Next round is in the August running of the NA QSO Party
73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

Date: Sun, 24 Mar 2002 15:42:37 +0000
From: Larry Cahoon <lejek@erols.com>
To: qrp-l@lehigh.edu
Subject: [123072] Counties Round Two - IN, IL, OH
Message-ID: <5.1.0.14.0.20020324153420.00b892e0@pop.erols.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Well I tried KY last week and found that KY does not exist. Actually it seems no one on the list lives in the ones I need. I did manage to get five this week anyway. One from a guy I had been trying to hook up with for a few weeks and then a couple of mobiles managed to get to the ones I needed.

So it is time to try another set. I'm down to 172 now to have them all QRP. Average power to work all counties now stands at 5.72 watts.

So here is this weeks list. Anyone who lives in one of these and wants to set up a sked please let me know.

OH

Lawrence

IN

Daviess

Greene

Jefferson

Knox

Lawrence

Miami

Monroe

Orange

Pike

Sullivan

Washington

IL

Cass

Hardin

Jackson

Tnx and 73 de Larry.....WD3P in MD

<http://www.qsl.net/wd3p/>

Date: Sun, 24 Mar 2002 16:02:21 +0000

From: Larry Cahoon <lejek@erols.com>

To: qrp-1@lehigh.edu

Subject: [123073] DXCC QRP

Message-ID: <5.1.0.14.0.20020324155635.00b5dfe8@pop.erols.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Well Friday two packets of cards came in from the Buro. This batch managed to include cards confirming four new counties, putting me over the top for DXCC QRP confirmed with 102 cards in hand. Now as soon as I get the paper work done, and get a couple of guys to verify the cards I'll have to send off for the official ARCI awards.

Even better were the four new cards towards DXCC QRPP in the pile. That put the QRPP total confirmed at 58. Now with the QRP version out of the way I can get serious about getting it done QRPP. I don't have to decide anymore if I'm going to play in the DX contest QRP or QRPP.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

Date: Sun, 24 Mar 2002 11:47:31 -0500
From: W2AGN <w2agn@pobox.com>
To: Rod N0RC <rod@n0rc.com>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [123074] Re: NJQRP HB Sprint & "Space WX"
Message-ID: <0203241147310B.02416@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Sunday 24 March 2002 10:53, Rod N0RC wrote:
> Be prepared for some rough "Space Weather" during the NJQRP HB Sprint
> later today.
>
> 73, Rod N0RC
> Ft Collins, CO
>
--

OK, I'll be sure to have my galoshes and umbrella.

John L Sielke W2AGN
w2agn@pobox.com
<http://mywebpages.comcast.net/w2agn>
Trustee: W3IYQ

Date: Sun, 24 Mar 2002 12:33:57 -0500
From: Bob Mason <skydive@usa.net>

To: qrp-1@Lehigh.EDU
Subject: [123075] New K1, something to watch for
Message-ID: <NFBBLFFOILIDGGKFDNEBCEIDCDAA.skydive@usa.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

Survived my first night with the K1. So far so good.

Something I forgot to mention on the construction (just in case somebody out there doesn't already know this). The new K1s have a switch added on the bottom of the RF board to turn on the carrier osc for setting the transmit offset during alignment. It is normally left in the OPER position, and in TEST only when setting the offset.

During initial receiver alignment and test you have been told to put it in OPER. The receive aligned and checked out great. I then went on to finish the transmitter construction. Upon turning the rig back on, there was a low frequency oscillation in the receive audio. I spent about an hour trying to figure out what I had done to cause it, before noticing that the switch had been bumped into the TEST position. The oscillator was running, thus the sound on receive.

Just something to remember... wish I'd have read ahead and known what that switch was for, it would have saved several minutes of feeling stupid.

73 / 72

Bob WB8CAC

K1 1150

Date: Sun, 24 Mar 2002 13:30:00 EST
From: AC6JA@aol.com
To: qrp-1@lehigh.edu
Subject: [123076] wilderness website down?
Message-ID: <114.e96798b.29cf7528@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

been trying to get on the wilderness radio website but it's not available.
anyone else having this problem?

mike ac6ja

Date: Mon, 25 Mar 2002 02:48:43 +0000
From: Chuck Adams <k7qo@earthlink.net>
To: qrp-1@lehigh.edu
Subject: [123077] Elecraft KFL1-4 Four-Band Filter Board Mod de K7Q0
Message-ID: <5.1.0.14.0.20020325023632.009f3d90@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Knowing that on the trip to Dayton I'd want a multiband rig that would take up little space in a large empty suitcase I opt'd for the K1 for this trip.

I need all the empty space in the bag for all the goodies that I am expecting to find at the flea market. You know how much space those fleas can take up. Little critters get big and multiply in a hurry. Faster than a double word multiply in a fast math coprocessor. :-)

So I ordered early in the week a KFL1-4 four-band filter board for the K1. Just started on it this morning and already have a mod that some of you that are going to build one of these puppies.

On the top of page 6 you are asked to install 10 capacitors. All of these capacitors mount on the bottom side of the board. You are asked in the next step to take care not to have the solder iron touch any of the components on the top of the board.

I found that I could mount ALL the caps on the top side of the board and not have to fight the problem of being extra careful. Just make sure that the leads from the cap go through the cap outline on the bottom of the board. This should be an easy thing to do and unless there is something in the future that I am missing this mod should work as advertised.

Just take extra care in checking part values and placement. Building kits is not a timed olympic event.

This tip brought to you by someone who loves winding toroids..... :-)

FYI,

Chuck Adams, K7QO CP-60 k7qo@earthlink.net
<http://www.qsl.net/k7qo>

Moving to Arizona? --- Bring your own water, please.

Date: Sun, 24 Mar 2002 19:17:04 -0000
From: "Hubert Smits" <hubert.smits@btinternet.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [123078] OT: oshiba keyboard
Message-ID: <020901c1d368\$7ce645d0\$8e287bd5@mynote>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Somebody asked a question about a Toshiba keyboard, please contact me
direct, I have 2 of them here.

73 de Hubert - MM0GMM

Date: Sun, 24 Mar 2002 13:42:13 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [123079] solder pot
Message-ID: <Pine.LNX.4.33.0203241339470.8808-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Someone posted a message on here about using the shell casing from a
38/9mm bullet for a solder pot...

...would that person please contact me direct as I have a couple of
questions...thanks...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
 A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
 - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
 "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Sun, 24 Mar 2002 14:52:14 EST
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [123080] Tiny Tornado Band?
Message-ID: <18b.562a811.29cf886e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

It is my guess the greatest success with the Tiny Tornado is on 20m based upon simpler antenna requirements (more efficient generally), more activity and less digital and SSB interference. Comments?

Date: Sun, 24 Mar 2002 13:05:11 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@lehigh.edu>
Subject: [123081] FS Icoms
Message-ID: <000f01c1d36f\$3590d7c0\$18d8070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

For Sale Icom 2710 H 2mtr 440 dual band mobile with mike pwr cord manual and mount also Icom 706MK11 with mbl mount mike manual pwr cord Cal KF7ET reply direct or 208 357 7431 need money for FT817

Date: Sun, 24 Mar 2002 13:07:03 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123082] NC20 Pout Question
Message-ID: <002901c1d36f\$77447410\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

NC20 Folks,

I have my NC20 set for 5W out. But when I first power it on, it only puts out ~4W. After the rig warms up for 15-20 min the output climbs

back to 5W. This situation has me flummoxed. What could be the cause?

73, Rod N0RC
Ft Collins, CO

Date: Sun Mar 24 14:39:56 2002
From: kc0bom@arrl.net
To: qrp-l@lehigh.edu
Subject: [123083] Re: Close shaves
Message-ID: <200203242041.g20Kexws003870@mail.iowasocan.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Speaking of getting zapped by big voltages, I was putting together a strobe light kit together in electronics class once. I managed to short out the ends of the bulb with my hand. Hurt like heck :^)

Also on the strobe light subje, this real doofus in my electronics class built a dual strobe light kit for a project. He was showing it off in study hall later that day. This thing had two pots to independantly control the different bulbs. He was playing around with both of them at the same time (trying to act like a big shot or something) and managed to touch his fingers to some bare connections. Next thing you know the bulbs are going nuts and he's twitching every time the bulbs go of :^D No one thought to do anything because the guy did stupid stuff like that and everyone thought he was faking it. Eventually something in the circuit blew up and he got free of the thing :^)

72/73/oo
Rob, kc0bom

Date: Sun, 24 Mar 2002 15:59:46 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [123084] Re: NJQRP HB Sprint & "Space WX"
Message-ID: <3.0.6.32.20020324155946.007adb50@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Why is it the sun always burrrps when there is a sprint or something

planned? Kinda like if you want it to rain, schedual some major outdoor function a couple months in advance!

Well, we'll see if 20M has any life left in it at 00:00Z, but I suspect this will be mostly a 40M event. I'll be trying out a fancy four band DDS rig I built a year ago and hasn't seem much of any use since.

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Sun, 24 Mar 2002 15:18:21 -0600
From: Tim - N9PUZ <N9PUZ@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [123085] QRP Newcomer Questions
Message-ID: <004d01c1d379\$6d3b7040\$a400a8c0@EOS>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I've been reading web sites, tuning around the bands, etc. My question to the group is for someone just getting involved in QRP which band is a good place to begin? I want to start with a small, single band radio that can go camping, on trips to the in-laws, etc.

Second question is who makes small paddles that are readily transported in a backpack or motorcycle saddlebags?

Tim N9PUZ

Date: Sun, 24 Mar 2002 13:16:28 -0800
From: Patrick Armstrong <aa7fg@gte.net>
To: qrp-1@lehigh.edu
Subject: [123086] FS: QRP kits and OHR-500...>
Message-ID: <3C9E422C.12CB2EE4@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I offer the following for sale;

Ten-tec TT-1320 20M QRP CW XCVR kit (unbuilt)... Complete minus the original box... \$55.00

NorCal SMK-1 40M QRPP surface mount kit plus the NJQRP matching enclosure kit (both unbuilt) complete and sold together... \$55.00

OHR-500 QRP CW XCVR and optional keyer installed with matching DD-1 Digital Dial in mint condx and working perfect... \$295.00

Pat, AA7FG - Oregon

Date: Sun, 24 Mar 2002 14:26:59 -0700
From: Dan Tayloe <dtayloe@cox.net>
To: qrp-1@Lehigh.EDU, K9nk@aol.com
Subject: [123087] Re: Working with Surface Mount Components
Message-ID: <3C9E44A3.CAA2958F@cox.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I think I would also help to work on some low surface with perhaps a white sheet on the floor.

I am becoming a bit fat fingered and once in a while a part zings off my tweezers. In that case, it helps if the work surface is a bit lower to the floor so it won't bounce quite to far, and to have the floor covered with a flat, white sheet so stray parts are easier to find. Dark carpet can simply swallow up a small SM part.

I also suggest tinning both the pad and the first leg of that gets soldered down. That way you simply need to touch the iron to the first leg of the part and its pad to soldered them together. As was mentioned previously, after you have the first leg soldered down, the rest is easily. Simply make sure you start soldering on the opposite side of the part from the leg you first soldered down. That minimizes reflowing the first pin and having the part come up.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Sun, 24 Mar 2002 14:36:09 -0700

From: tailfeathers@juno.com
To: N9PUZ@arrl.net
Cc: qrp-l@lehigh.EDU
Subject: [123088] Re: QRP Newcomer Questions
Message-ID: <20020324.143610.-1461365.1.tailfeathers@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

40 meters is active a lot and check out a set of the Bull Dog paddles.

Gary

On Sun, 24 Mar 2002 15:18:21 -0600 Tim - N9PUZ <N9PUZ@arrl.net> writes:
> I've been reading web sites, tuning around the bands, etc. My
> question
> to the group is for someone just getting involved in QRP which band
> is
> a good place to begin? I want to start with a small, single band
> radio
> that can go camping, on trips to the in-laws, etc.
>
> Second question is who makes small paddles that are readily
> transported in a backpack or motorcycle saddlebags?
>
> Tim N9PUZ
>
>
>

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<http://dl.www.juno.com/get/web/>.

Date: Sun, 24 Mar 2002 16:24:28 -0500
From: Ken Newman <n2cq@dandy.net>
To: QRP-L@lehigh.edu
Subject: [123089] Homebrewer Sprint TODAY!
Message-ID: <jUsT.aNoTheR.mEsSaGe.iD.101700563825564@webmail.dandy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso8859-1
Content-Transfer-Encoding: 8bit

Hi All,

Only a short time until 7PM EST today from now for the Homebrewer Sprint! Are you ready?
Look for WQ2RP on 15M first and all the way down to 80M by 11PM EST.
Should be busy!

Rules can be found at <<http://www.njqrp.org/data/qrp-homebrewers-sprint.html>>
or below.

=====

QRP Homebrewer Sprint Announcement

March 25, 2002 - 0000-0400 UTC
(Sunday evening in the US)

Put down the soldering iron and get on the air with other QRP homebrewers!
The NJQRP and "QRP Homebrewer" magazine are sponsoring this fun,
quick and easy QRP sprint ... with a homebrew twist! Includes
PSK31 mode and multipliers for home-built gear. Prizes for the winner(s)
and special certificates for all.

Mission: Promote homebrewed & homemade equipment on the air together.
(Warblers too!) Anyone with ANY equipment can enter.

Sponsor: New Jersey QRP Club (<http://www.njqrp.org>)

When: The fourth Monday in March and September 0000-0400 UTC
(Sunday evening in USA/Canada)

Modes: CW and PSK31. (Both modes considered separate bands)
QRP CW and PSK31 frequencies recommended on 80, 40,
20, 15 and 10 meters.

Exchange: RST - State/Province/Country - Power out

QSO Points:

- 2 Commercial Equipment
- 3 Homebrew Xmtr or Rcvr
- 4 Homebrew Xmtr AND Rcvr or Xcvr
- 5 Homebrew PSK31 station
- (Kits are ok for homebrew)

Power Mult: 0-250 mW = x 15, 250 mW-1W = x10, 1-5W = x7, >5W = x1.
(The highest power used during the
contest for the mult.)

Multiplier: State/Province/Country for all bands. The same station
may be worked on more than one band for
QSO points and
SPC credit. CW and PSK31 are considered
separate bands.

SCORE: Points(total for all bands)
x SPC (total for all bands)
x power multiplier.

AWARDS: Awards of current NJQRP Club kits or subscriptions to
"QRP Homebrewer" will be provided based on the
number
of entries received. Special certificates will
also be awarded.

LOGS: Entries must be received by 30 days from the contest. The
log sheets and summary should be included. E-
mail logs are
accepted in text form. (No word processor files
etc).
Also paper logs are ok.

Please include your Soapbox info with your equipment
and
exploits.

Send logs to:

Ken Newman, N2CQ
81 Holly Drive
Woodbury, NJ 08096

or send by email to n2cq@arrl.net

=====
EASY access to your email <http://webmail.dandy.net/mr2/nph-mr.cgi>
=====

Date: Sun, 24 Mar 2002 17:09:32 -0500
From: Pete Burbank <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123090] Re: NC20 Pout Question
Message-ID: <5.0.2.1.0.20020324164923.00ad03d0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Rod and gang

I just completed a Red Hot 40 for a friend and noticed while power testing that it did just what you are talking about. I was thinking maybe toroid core heating and possible tuning changes. It had plenty of power so decided not to worry about it.
Plus the fact that normal QSO duty cycles are a lot less than the key down situation while tweaking the trimmers (TC8 and 9). Maybe some of the toroid experts have comments.
The receiver turned out to be a beaut!
73 Pete NV4V

At 01:07 PM 3/24/2002 -0700, Rod N0RC wrote:

>NC20 Folks,
>
>I have my NC20 set for 5W out. But when I first power it on, it only
>puts out ~4W. After the rig warms up for 15-20 min the output climbs
>back to 5W. This situation has me flummoxed. What could be the cause?
>
>73, Rod N0RC
>Ft Collins, CO

Date: Sun, 24 Mar 2002 17:23:26 -0500
From: Pete Burbank <plburbank@kih.net>
To: qrp-1@lehigh.edu
Subject: [123091] NC-20 p out
Message-ID: <5.0.2.1.0.20020324171701.00b03680@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I just thought of another possible cause. The internal heat might be changing the VFO drive.
73 Pete NV4V

Date: Sun, 24 Mar 2002 17:34:26 EST
From: Schunn99@aol.com
To: qrp-1@lehigh.edu
Subject: [123092] random wire antennas?
Message-ID: <13c.b8307d2.29cfae72@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

hi, guys

I was searching the web and read some qrp websites that mentioned random wire antennas? I know you need a atu and that it is a muti-band antenna. Could you guys give me the specs on that kind of antenna?(db, length, what kind of wire is good to use) If someone could give any building instructions and do you just attach a bnc connector to one end of the wire and then attach the bnc to the tuner?

I have been looking at different types of antennas to build.

Scott Hunnicutt

Kg4oqu

Date: Sun, 24 Mar 2002 15:52:31 -0700
From: "Jason Nochlin" <jman0iin@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [123093] Re: QRP Newcomer Questions
Message-ID: <004801c1d386\$967c6e20\$daf2fd0c@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>>Second question is who makes small paddles that are readily transported in a backpack or motorcycle saddlebags?<<

I use the Palm Radio Mini Paddles from Morse Express. They are 1x1x3 inches and come with a small case that they slip into when not in use. You can also get magnets for them. Only problem is the connector that connects the paddles to the wire thta goes to the rig comes loose. Here's a link:

<http://www.mtechnologies.com/palm/>

73,

Jason K0IIN

Date: Sun, 24 Mar 2002 18:49:30 -0500
From: "N3BJ" <N3BJ@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [123094] WTB: TenTec 1254 SWL RX
Message-ID: <0E60TAGUjGnAKYoo9tj00015b46@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Please let me know if you have one that is surplus to your needs. Problem radio, unbuilt OK.

Alan, N3BJ
Bent Mountain, VA

Date: Sun, 24 Mar 2002 16:52:39 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <Schunn99@aol.com>, qrp-l <qrp-l@lehigh.edu>
Subject: [123095] Random thoguhts on random wire antennas
Message-ID: <B8C3B4D7.13479%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The random wire is called random because it is not generally a specific length; that is it is usually long enough to go between convenient supports.

It can be entirely horizontal, sloping, or part vertical and part horizontal.

A tuner is usually required. A tee network or ell network circuit will work fine. If the antenna length is a multiple of half wavelengths, then a parallel L-C circuit will work fine. A Z match will also work, but tuning can be touchy. Most commercial tuners are of the tee type. Just connect the wire to the hot lead of the tuner. A banana plug (wander plug for the Gs on the list) is convenient to use, fasten it to the end of a wire. It will fit perfectly in the center conductor of a SO-239 (UHF) coaxial connector.

Some lengths are better than others. A half wave or multiple of that is usually easiest to handle with respect to tuning and ground. A length of 130 feet or so is about a multiple of half wavelengths from 80 M to 10 M and is a good choice for length. For a half wave system, a single 1/4 wave resonant radial on each band is adequate. For frequencies at which the antenna is a quarter wavelength or odd multiples of a quarter wavelength the ground

system is more important and efficiency can suffer if a good ground is not supplied.

On low frequencies, the directivity will be at right angles to the antenna. At higher frequencies, the directivity will be off the ends of the antenna. At the longer lengths, the nulls can be sharp. You can have good coverage to one area of the world on one band, and have a null there on other bands. Horizontal antennas less than a half wavelength high won't have much directivity.

If part of the antenna runs vertical, then the vertical length should be less than $5/8$ wavelength on the highest band if high angles of radiation on that band is to be avoided.

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End of QRP-L Digest 2504
